Use Attainability Analysis

for

WBID 992 Tributary to Labadie Creek

Submitted by Alliance Water Resources for PWSD #3

To Missouri Department of Natural Resources Water Protection Program

WATER PROTECTION PROGRAM

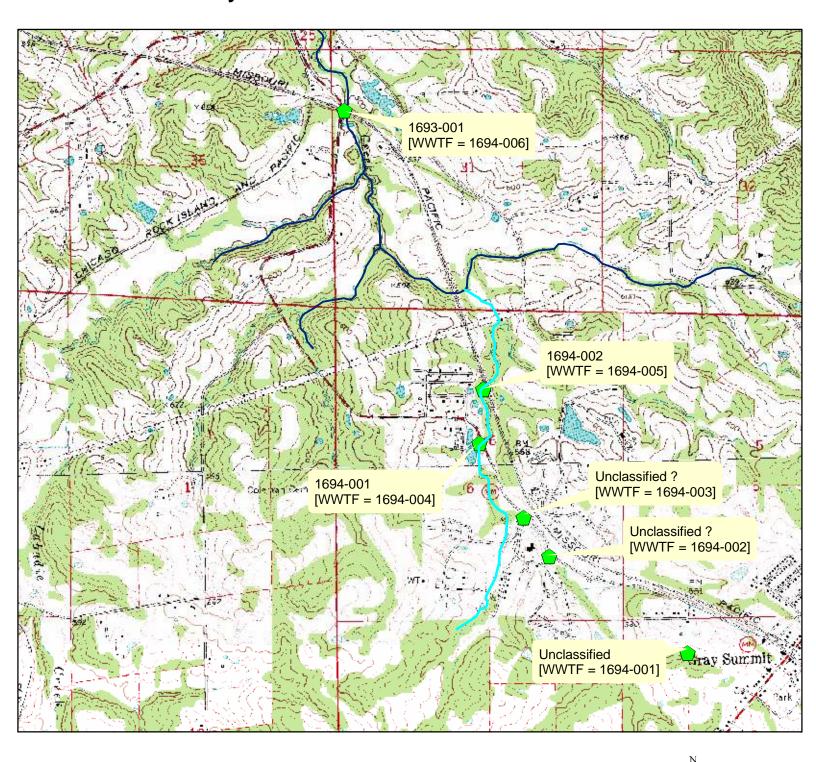
Data Sheet A - Water Body Identification

Water Body Name:	
(from USGS 7.5' quad)	Tributary to Labadie Creek
8-digit HUC:	10300200
Missouri WBID#:	1694
County:	Franklin
Upstream Legal Description:	Section 8 T43N R2E
Downstream Legal Description:	Section 31 T44N R2E
Upstream Coordinates: (UGS 84, ddd.ddddd)	N.38° 29.488' W.090° 49.470'
Downstream Coordinates: (UGS 84, ddd.ddddd)	N.38° 31.217' W.090° 50.895'
Discharger Facility Name(s):	Pine Lake Estates Subdivision
Discharger Permit Number(s):	MO-0111.554
Number of Sites Evaluated:	6
Name of Surveyor and Telephone	Number: Richard J. Tuttle (573) 874-8080
Organization: Alliance Wat	ter Resources for PWSD #3 of Franklin County Division Manager
Position:	211121011111111111111111111111111111111

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

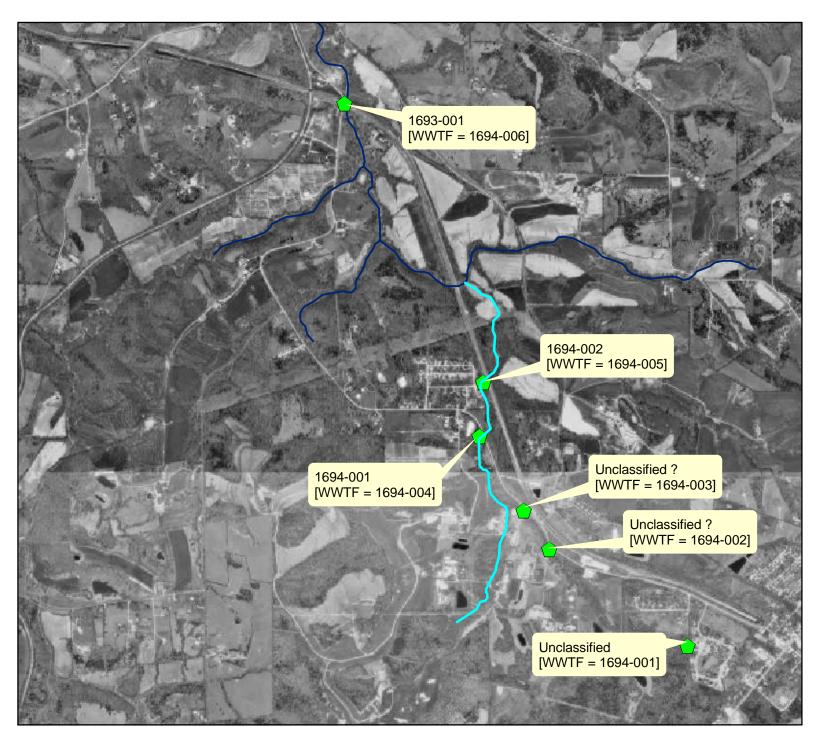
Signed: Richard Tuttle	Date: 7/14/05
	71

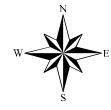
Franklin County PWSD#3 UAA for Trib to Labadie Creek





Franklin County PWSD#3 UAA for Trib to Labadie Creek





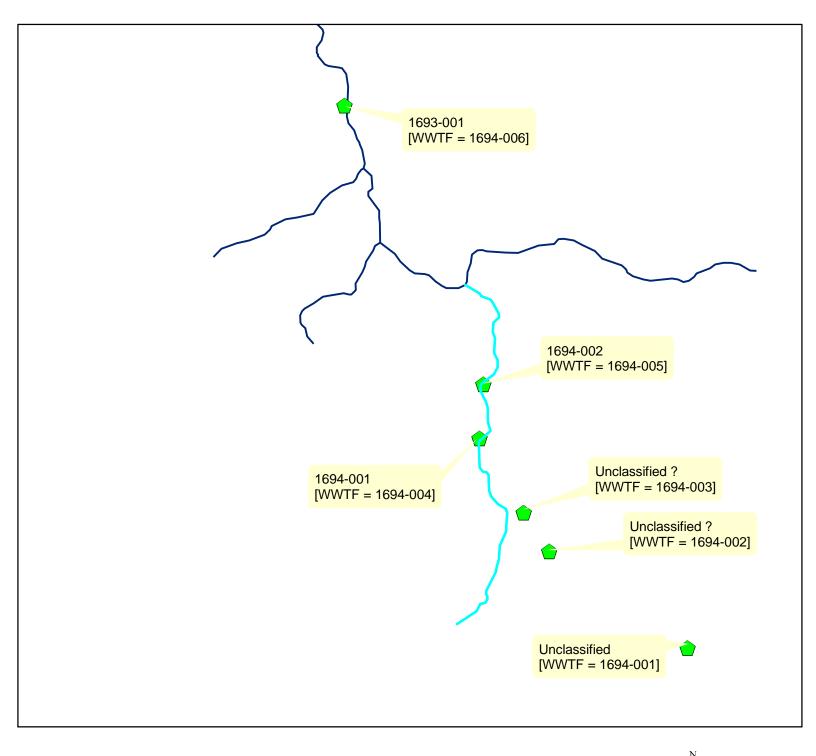
Legend

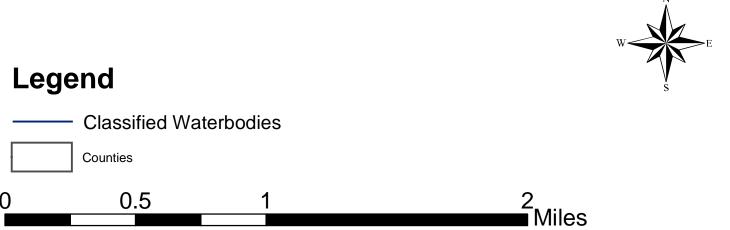
Classified Waterbodies

Counties

0 0.5 1 2 Miles

Franklin County PWSD#3 UAA for Trib to Labadie Creek





Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

	Missouri WBID#: 1694				Site Location	on Des	cription;		
Ì	Site GPS Coordinates: N	v.38 ⁰ 2 9 .488'	W.O	90 ⁰ 49	.470'	P1ar	nt discharge (Site	1)	
	Date & Time: 7/8/05	@ 1.:30pm			Facility Name: Pine Lakes Estates Subdivision				
			ob H	lathco	oc Rermit Number: MO-0111554				
. [Current Weather Condition							ny & Hot	
	Photo Ids: Upstream: None Downstream: #1 Other:								
Us	ses Observed*: None								
	☐ Swimming	☐ Skin diving		□ sct	JBA diving		☐ Tubing	☐ Water skiing	
	☐ Wind surfing	☐ Kayaking		□ Воа	ting		☐ Wading	☐ Rafting	
	☐ Hunting	☐ Trapping		□ Fish	_		XX None of the above	. 🗆 Other:	
	Describe: (include numbe	er of individuals rec	reating	g, freque	ency of use, p	hoto-d	ocumentation of evidence	of recreational uses, etc.)	
	None.								
i									
Su	rrounding Condition	s*: (Mark all that p	promo	te or imp	ede recreatio	onal us	es. Attach photos of eviden	ce or unusual	
	ns of interest.)		·					:	
	☐ City/county parks	☐ Playgrounds		ADC cor	iservation lar	nds	☐ Urban areas	☐ Campgrounds	
	☐ Boating accesses	☐ State parks		Vational	forests		☐ Nature trails	☐ Stairs/walkway	
	☐ No trespass sign	XX Fence	□s	teep slop	pes		XX Other: Heavy vegi	tation, Concrete,	
Ev	idence of Human Use	e*:					Rip Rap W	WTP	
	□ Roads	☐ Foot paths/pri	nts		ock/platform		☐ Livestock Watering	☐ RV / ATV Tracks	
	☐ Rope swings	☐ Camping Sites	3	□ Fi	re pit/ring		₩ NPDES Discharge	☐ Fishing Tackle	
1	Other: Concrete	rip rap							

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Page Two - Data Sheet B for WBID # 1694 :

☐ Riffle Width	(ft):	Length (ft):	Avg. Depth	ı (ft):	Max. Depth (ft):	
□ Run Width	(ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
□ Pool Width	(ft):	Length (ft):	Avg. Depth	ı (ft):	Max. Depth (ft):	
Flow Preser	t?	√ No	Estimated ([ft³/sec):)ry	
ownstream V	ew Physical	Dimensions:			•	
☐ Riffle Width		Length (ft):	Avg. Depth	ı (ft):	Max. Depth (ft):	
□ Run Width	(ft):	Length (ft):	Avg. Depti	ı (ft):	Max. Depth (ft):	
□ Pool Width	(ft):	Length (ft):	Avg. Depti	n (ft):	Max. Depth (ft):	
XXFlow Preser	it? XX Yes	□No Efflu	ent Estimated	(ft³/sec): O.(009 <	1" deer
	٠.					
strate*: (These	values should a	idd up to 100%.)	% Sand	% Silt	% Mud/Clay	% Bedrock
50 % Cobb atic Vegetation Light algain	n*: (note amou	organical of the organization of the of the organization or	algal growth at the as			
atic Vegetatio	n*: (note amou	int of vegetation or				
atic Vegetatio	n*: (note amou	int of vegetation or			□ Other:	
atic Vegetation Light algain	n*: (note amou growth stics*: (Mark	ant of vegetation or	algal growth at the as	sessment site)		
atic Vegetation Light algain ter Characteri Odor:	n*: (note amount growth stics*: (Mark	all that apply.)	algal growth at the as	x None	□ Other:	
atic Vegetation Light algain ter Characteri Odor: Color:	n*: (note amou growth stics*: (Mark: □ Sewage	all that apply.) Musky Green	algal growth at the as	x None	☐ Other:	

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID#;	1694		Site Locati	Site Location Description:			
Site GPS Coordinat	es:N.38 ⁰ 29.697' W090	0°50.042'	Stream_a	Stream along Hwy MM (Site 2)			
Date & Time: 7/8	/05 @ 1:45pm		Facility Na	Facility Name: Pine Lake Estates Subdivision			
Personnel:Richar	d Tuttle & Bob	Hathcock	Permit Nur	Permit Number: MO-0111554			
Current Weather Co	onditions: Sunny &	Hot	Weather C	onditio	ns for Past 7 days: Sunn	y & Hot	
Photo Ids: Upstream	n: #3 & #4 Do		#2	Other:			
Uses Observed*: N	one				· :		
☐ Swimming	☐ Skin diving	□ sc	UBA diving		☐ Tubing	☐ Water skiing	
☐ Wind surfing	☐ Kayaking	□Во	ating		□ Wading	☐ Rafting	
☐ Hunting	☐ Trapping	☐ Fis			XX None of the above ocumentation of evidence	Other:	
Surrounding Conditems of interest.)	itions*: (Mark all that	promote or in	npede recreatio	onal use	es. Attach photos of evider	ice or unusual	
☐ City/county park	s	☐ MDC ∞	onservation lar	nds	☐ Urban areas	☐ Campgrounds	
☐ Boating accesses	s 🔲 State parks	☐ Nationa	l forests		☐ Nature trails	☐ Stairs/walkway	
☐ No trespass sign	☐ Fence	XX Steep slo	opes		XX Other: Roadside	<u>.</u>	
Evidence of Human	ı Use*:				·		
XX Roads	☐ Foot paths/pr	ints 🗆 1	Oock/platform	ı	☐ Livestock Watering	□ RV / ATV Tracks	
☐ Rope swings	☐ Camping Site	es 📗 🗆 I	Fire pit/ring		☐ NPDES Discharge	☐ Fishing Tackle	
☐ Other:							

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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Page Two - Data Sheet B for WBID # 1694 ::

Max. Depth (ft): Max. Depth (ft): 0.83 Max. Depth (ft): Max. Depth (ft):
Max. Depth (ft):
Max. Depth (ft):
Max. Depth (ft): 0.83
0.02
% Mud/Clay % Bedro
Other:
☐ Other:
☐ Other:
☐ Other:
-

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID#: 169	4		Site Location	Description:			
Site GPS Coordinates:	N.38 ⁰ 29.813' W	090 ⁰ 50.155'	Entrance	to Purina Farms (Site 3)		
Date & Time: 7/8/05			Facility Name: Pine Lake Estates Subdivision				
Personnel: Richard T	uttle & Bob	Hathcock		Permit Number: MO-0111554			
Current Weather Condition			Weather Cond	Weather Conditions for Past 7 days: Sunny & Hot			
Photo Ids: Upstream:	Dov	vnstream;	Ot	her: NoreRestricted	Site		
Uses Observed*: None							
☐ Swimming	☐ Skin diving	□ SC	UBA diving	☐ Tubing	☐ Water skiing		
☐ Wind surfing	☐ Kayaking	□Во	ating	□ Wading	☐ Rafting		
☐ Hunting	☐ Trapping	☐ Fis	hing	x⊠ None of the above	☐ Other:		
Surrounding Condition items of interest.)	s*: (Mark all that)	promote or im	pede recreationa	l uses. Attach photos of evide	nce or unusual		
☐ City/county parks	☐ Playgrounds	☐ MDC co	nservation lands	☐ Urban areas	☐ Campgrounds		
☐ Boating accesses	☐ State parks	☐ National	forests	☐ Nature trails	☐ Stairs/walkway		
☐ No trespass sign	☐ Fence	☐ Steep slo	pes	📈 Other: Purindal	`arms		
Evidence of Human Use	e *:			,			
XX Roads	☐ Foot paths/pri	nts 🗆 🗆	ock/platform	☐ Livestock Watering	☐ RV / ATV Tracks		
☐ Rope swings	☐ Camping Sites	. □ F	ire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle		
x⊠ Other: Entrance	and Guard Ho	use					

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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Page Two – Data Sheet B for WBID # 1694 Stream Morphology: Upstream View Physical Dimensions: N/A Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): ☐ Riffle Length (ft): Avg. Depth (ft): Max. Depth (ft): Width (ft): ☐ Run Avg. Depth (ft): Length (ft): Max. Depth (ft): Width (ft): ☐ Pool Estimated (ft³/sec): ☐ Flow Present? ☐ Yes . \square No Downstream View Physical Dimensions: N/A Avg. Depth (ft): Max. Depth (ft): Width (ft): Length (ft): ☐ Riffle Length (ft): Avg. Depth (ft): Max. Depth (ft): Width (ft): ☐ Run Length (ft): Avg. Depth (ft): Max. Depth (ft): Width (ft): ☐ Pool Estimated (ft³/sec): ☐ Flow Present? ☐ Yes □ No Substrate*: (These values should add up to 100%.) % Silt % Mud/Clay 30 % Bedrock % Cobble % Gravel % Sand 20 (Observed from bridge) Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site) None noted. Water Characteristics*: (Mark all that apply.) Odor: □ Sewage □ Musky Chemical xx None ☐ Other: Color: xk Clear ☐ Green ☐ Gray ☐ Milky ☐ Other: Bottom Deposit: □ Solids XXI Fine sediments □ None ☐ Other: ☐ Sludge Surface Deposit: □ OiI ☐ Scum ☐ Foam XX None ☐ Other: Comments: Please attach additional comments (including information from interviews) to this form. *This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use. I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate. Date:

iance Water Resources Position:

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

	Missouri WBID #: 1694	, +			Site Location Description:			
Ī	Site GPS Coordinates: N	.38 ⁰ 30.087' W .0	990 ⁰ 50	.322'	Highway	y MM	Crossing (Site #	4)
	Date & Time: 7/8/0	5			Facility Name: Pine Lake Estates Subdivision			
	Personnel:Richard To	ıttle & Bob	Hatho	ock	Permit Number: MO-0111554			
	Current Weather Condition		Weather Conditions for Past 7 days: Sunny & Hot					
	Photo Ids: Upstream:	#5 Do	wnstre	am: #6		Other:		
Us	es Observed*; None						<u>1</u>	
	☐ Swimming	☐ Skin diving		□ sct	JBA diving		☐ Tubing	☐ Water skiing
	☐ Wind surfing	☐ Kayaking		□ Boa	ting		□ Wading	☐ Rafting
	☐ Hunting	☐ Trapping		☐ Fish	ing		XX None of the above	☐ Other:
	Describe: (include number	er of individuals re	creatin	g, freque	ency of use, p	hoto-d	locumentation of evidence	of recreational uses, etc.)
	None.						•	
İ	•							
į	· · · · · · · · · · · · · · · · · · ·			····.				
Su	rrounding Condition	s*: (Mark all that	promo	te or imr	ede recreatio	onal us	es. Attach photos of evider	ace or unusual
	is of interest.)							:
	☐ City/county parks	☐ Playgrounds	□ N	vDC cor	servation lan	nds	☐ Urban areas	☐ Campgrounds
	☐ Boating accesses	☐ State parks	□ 1	National:	forests		☐ Nature trails	☐ Stairs/walkway
	☐ No trespass sign	☐ Fence	xx S	teep slop	oes		x5x Other: Box Culve	ert
Εν	idence of Human Uso	.*.						
	™ Roads	☐ Foot paths/pr	inte		ock/platform		☐ Livestock Watering	□ RV / ATV Tracks
Ì	☐ Rope swings	☐ Camping Site	-	· · · · · · ·	re pit/ring		☐ NPDES Discharge	☐ Fishing Tackle
	☐ Other:	Camping on	<i>- - - - - - - - - -</i>	1 - 1	re bioting		C 141 DDS Disonarge	L Tishing Tackie
1								

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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Upstream ☐ Riffle	View Phy Width (ft):	sical Di	mensions: Length (ft):		Avg. Depth	(ft):	Max. Deptl	h (ft):	
□ Rime □ Run	Width (ft):		Length (ft):		Avg. Depth	````	Max. Depti	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
	Width (ft):	10	Length (ft):	10		(ft): 0.75	Max. Depti		
Pool Flow	Present?	10 xx Yes		12	Estimated (. (29. 1	·
XX Flow	riesem?	XIXI I ES	. 🗀 100				<u> </u>		
Downstrea	am View l	Physical	Dimensions:						
<u></u> Riffle	Width (ft):	2	Length (ft):	2	Avg. Depth	(ft): 0.06	Max. Dept	h (ft): (.083
□ Run	Width (ft):		Length (ft):		Avg. Depth	(ft):	Max. Depti	h (ft):	
🖈 Pool	Width (ft):	6	Length (ft):	15	Avg. Depth	(ft): 0.67	Max. Dept	h (ft); () . 75
★ Flow	Present?	xx Yes	□ No		Estimated (ft ³ /sec): <i>O.</i> (<u> </u>	. <u>-</u>	
Aquatic Veg		note amou	<u> </u>	or al	% Sand gal growth at the ass	% Silt	% Mud/Clay	- 1	
Aquatic Veg	etation*:	in gra	unt of vegetation	or al					% Bedrock
Aquatic Veg	etation*:	in gra	unt of vegetation	or al	gal growth at the ass		☐ Other:		
Aquatic Veg Minimal Water Chara	etation*:	in gra	vel bars.	or al	gal growth at the ass	essment site)	☐ Other:	Browni	
Minimal Water Chara Odor:	etation*:	in gra *: (Mark:	vel bars. all that apply.) Musky	or al	gal growth at the ass	essment site)	☐ Other:		
Minimal Water Chara Odor: Color: Bottom Dep	plants cteristics cosit:	in gra *: (Mark : Sewage Clear Sludge Oil	unt of vegetation vel bars. all that apply.)		gal growth at the ass Chemical	essment site) x □ None □ Milky □ None 55 None	☐ Other: XX Other: ☐ Other: ☐ Other:	Browni	

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 16	94		Site Location Description:			
Site GPS Coordinates: N	.38 ⁰ 30.240' W.0	990 ⁰ 50.360'	Beauty View Acres (Site 5)			
Date & Time: 7/8/6			Facility Name: Pine Lake Estates Subdivision			
Personnel: Richard		Hathcock	Permit Number: MO-0111554			
Current Weather Conditi					ns for Past 7 days: Sunn	y & Hot
Photo Ids: Upstream:		nstream: #1	0 (Other:	#11 Accessable	point
Uses Observed*: None						
☐ Swimming	☐ Skin diving	□ SC	JBA diving		☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boa	ting		☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fish	ning		None of the above	☐ Other:
Surrounding Condition items of interest.)	I S*: (Mark all that p	promote or im	pede recreatio	onal use	es. Attach photos of evider	nce or unusual
☐ City/county parks	☐ Playgrounds	☐ MDC cor	servation land	ıds	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National	forests		☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☐ Steep slo	pes		xx Other: Scwage La	goon
Evidence of Human Us	e*:	:			Residenti	al Neighborhood
[™] XRoads	☐ Foot paths/prir	ıts 🗆 D	ock/platform		☐ Livestock Watering	□ RV / ATV Tracks
☐ Rope swings	☐ Camping Sites	□ F	ire pit/ring		xix NPDES Discharge	☐ Fishing Tackle
xx Other: Sewage 1	Lagoon					

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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September 29, 2004

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Page Two - Data Sheet B for WBID # 1694

Stream Morp Upstream		sical Din	nensions:						
	Width (ft):		Length (ft):		Avg. Depth	(ft):	Max. Dep	th (ft):	
☐ Run	Width (ft):		Length (ft):		Avg. Depth	(ft):	Max. Dep	th (ft):	
XX Pool	Width (ft):	35	Length (ft):	65*	Avg. Depth	(ft): 1.5	Max. Dep	th (ft):	2.2
☐ Flow	Present?	□ Yes	□ No		Estimated (f	t³/sec):			
Downstrea	m View P	hvsical l	Dimensions:						
☐ Riffle	Width (ft):		Length (ft):		Avg. Depth	(ft):	Max. Dep	th (ft):	
☐ Run	Width (ft):		Length (ft):		Avg. Depth	(ft):	Max. Dep	th (ft):	
XX Pool	Width (ft):	35	Length (ft):	65*	Avg. Depth	(ft): 1.5	Max. Dep	th (ft):	2.2
XX Flow	Present?	X XYes	□ No		Estimated (f	t³/sec): Eff	luent from I	agoon	
Same poo Substrate:			tream To	otal 65 f	eet long	•			
	Cobble		Gravel	% San	i	% Silt	100% Mud/Cla	у [.	% Bedrock
Water Chara		': (Mark a	ll that apply.) ☐ Musky	□ Che	emical	□ None	☐ Other:		· .
Color:		Clear	XX Green	□ Gra	y	☐ Milky	Other:		
Bottom Dep	osit:	Sludge	x X Solids	☐ Fin	e sediments	□ None	X Other:	Mud/Tr	ee Limbs:
Surface Dep	osit: 🔲 (Dil	☐ Scum	□ Foa	m	☐ None	XX Other:	Duckwe	ed
*This information comprehensive undecision on the range of the undersidatasheet is to the comprehensive of the undersidatasheet is to the undersidate of the undersidate	n is not to be inderstanding ecreation use igned, her- rue and ac	e used sole g of water analysis l eby affin ccurate.	ly for removal oconditions. Concut may point to	of a recreation as equently, the conditions to t	nal use design his information hat need furth nowledge, to	nation but rat on is not inter her analysis o	nterviews) to the her is to provide a ded to directly infor that effect another than the cormation report 1/05 Mugr.	more luence a er use.	this UAA
organization;	MILIANC	e wa	er ites	SOUTCE	>_ rositio	11. <u> </u>	. Joings.		

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID#: 169	94			Site Location	on Des	cription: on of Hwy MM, MO-I	Pac RR and
Site GPS Coordinates: N	.38 ⁰ 31.217' W .	090 ⁰ 50	0.895'			cek (Site 6)	de m, am
Date & Time: 7/8/05				Facility Name: Pine Lake Estates Subdivision			
Personnel: Richard	Tuttle & Bob	Hath	cock	Permit Number: MO-0111554			
Current Weather Condition	ny & Ilot						
I		wnstrea	am: #7		Other:		
Uses Observed*: None	<u> </u>						
☐ Swimming	☐ Skin diving		□ SCUI	BA diving		☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking		□ Boati	ng		☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping		☐ Fishir	ng		None of the above	☐ Other:
Describe: (include number	er of individuals re	creating	g, frequen	cy of use, p	hoto-d	locumentation of evidence	of recreational uses, etc.)
None.							
						·	
C							
Surrounding Condition items of interest.)	s*: (Mark all that	promo	te or impe	ede recreatio	ona! us	es. Attach photos of evider	nce or unusual
☐ City/county parks	☐ Playgrounds		ADC cons	ervation lan	ıds	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks		Vational fo	orests		☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	□ Fence	⊠×s	teep slope	es		XX Other: Hwy and	RR
Evidence of Human Use	a*•						
XX Roads	☐ Foot paths/pri	nts	□ Doo	ck/platform		☐ Livestock Watering	☐ RV / ATV Tracks
☐ Rope swings	☐ Camping Site			e pit/ring		☐ NPDES Discharge	☐ Fishing Tackle
XX Other: Railroad	Debris			· • • • • • • • • • • • • • • • • • • •			
							

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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Upstream	View Phy Width (ft):		Length (ft):	2	Avg. Depth	(ft): 0.04	Max. Depth	(A): C	0.04
□ Run	Width (ft):	· · ·	Length (ft):		Avg. Depth		Max. Depth		
XX Pool	Width (ft):		Length (ft):	18		(ft): 0.83	Max. Depth		1
☐ Flow	Present?	☐ Yes	□ No		Estimated (f				
Downstre	eam View	Physical	Dimensions:						
Riffle	Width (ft):		Length (ft):	2	Avg. Depth	(ft): ().()4	Max. Dept	n (ft): (0.04
☐ Run	Width (ft):		Length (ft):		Avg. Depth	(ft):	Max, Depti	n (ft):	
£x Pool	Width (ft):	10	Length (ft):	21	Avg. Depth	(ft): 0.67	Max. Depti	h (ft):	0.71
XX Flow	Present?	XX Yes	□ No.	_	Estimated (f	1 ³ /sec): 0,0	003		
50 9	% Cobble getation*:	20 %	add up to 100%.) Gravel	9,	6 Sand	% Silt essment site)	% Mud/Clay		30 % Bedro
quatic Ver	% Cobble getation*: noted.	20 % (note amou	o Gravel	9,	,		% Mud/Clay		30 % Bedro
quatic Ver	% Cobble getation*: noted. racteristics	20 % (note amou	Gravel	or alga	,		% Mud/Clay		30 % Bedro
quatic Ver None n	cobble getation*: noted.	20 % (note amou	ont of vegetation	or alga	al growth at the asse	essment site)		Brov	
7 None none none none none none none none	getation*: noted. racteristics	20 % (note amou	all that apply.) Musky	or alga	al growth at the asse	essment site)	□ Other:		% Bedro
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Signed: Richard Tuttle Date: 7/14/05
Organization: Alliance Water Resources Position: Div. Mugr.

Site 1 (location N 38 29.488', W090 53.752') is a downstream view of the plant discharge into a wet weather tributary of the subject of this UAA. As you can see in Picture 1 the only flow normally is the WWTP effluent.



Picture #1

Site 2 (location N 38 29.697', W 090 50.042') is located 0.77 stream miles downstream of the WWTP discharge point. Pool depth is 10 inches and flow depth at the riffles was ½ inch and approximately 6 inches wide. Picture 2 is the downstream view while Pictures 3 & 4 are the upstream views. The bottom of the creel consists of rocks and gravel.



Picture #2- Downstream

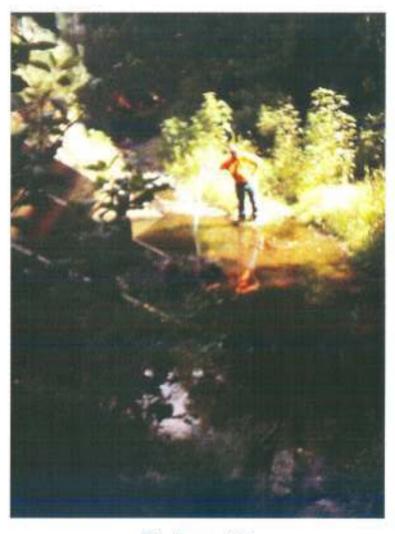


Picture #3- Upstream

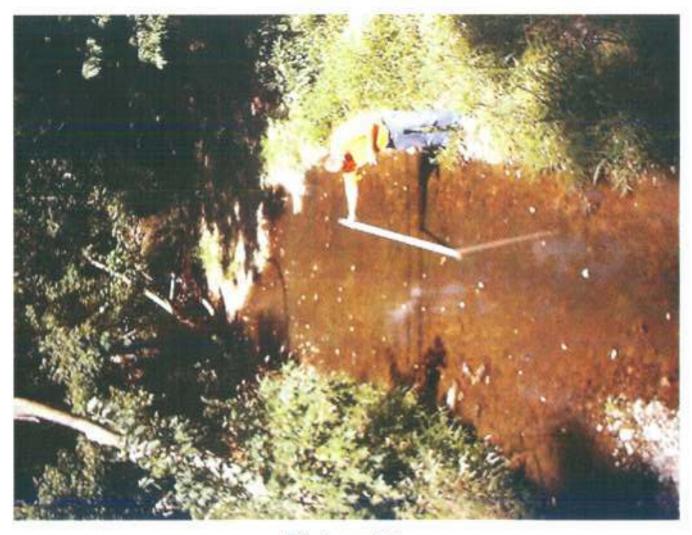


Picture #4- Upstream

Site 4 (location N 38 30.087', W 090 50.322') is located just downstream of Purina Farms and is the first public access point downstream of the discharge. Site 4 is located where the tributary crosses Highway MM and is 1.34 stream miles downstream of the discharge point. At this location the stream consists of pools on either side of the box culvert crossing MM and rocky riffles. Pool depth was measured as 9 inches. Riffles were approximately 1 inch deep and 2 feet wide. Picture 5 is an upstream view from the southwest side of MM and Picture 6 is a downstream view northeast of MM.



Picture #5

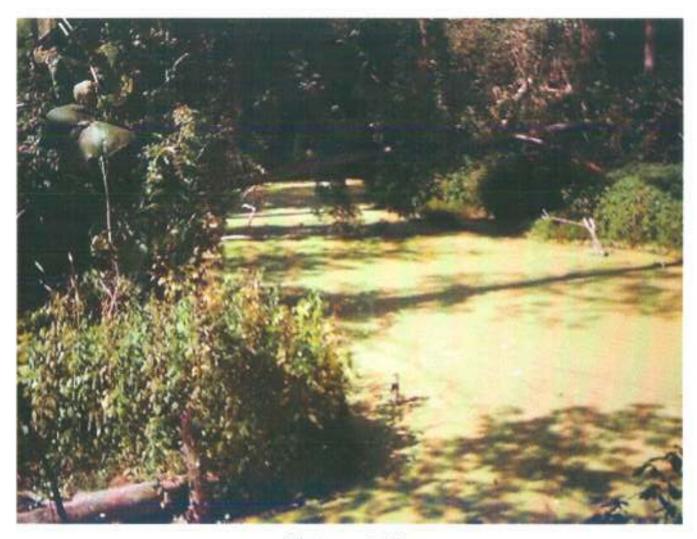


Picture #6

Site 5 (location N 38 30.240', W 090 50.360') is located in Beauty View Acres Subdivision. The only area that had access to the stream was at the discharge for the subdivision's wastewater lagoon. The stream at this location was a pool for the entire width and length of the stream. The pool was entirely covered with duckweed as this is the location because of the discharge for the aerated lagoon. The bottom of the stream was a thick soft mud interspersed with numerous limbs from the trees that lined both banks. The depth of the pool measured between 1 and 2 feet deep. The thickness of the mud was approximately 6 to 8 inches deep. Picture 9 depicts the downstream view while picture 10 is the upstream view. Picture 11 is of the area where the lagoon discharge enters the stream.



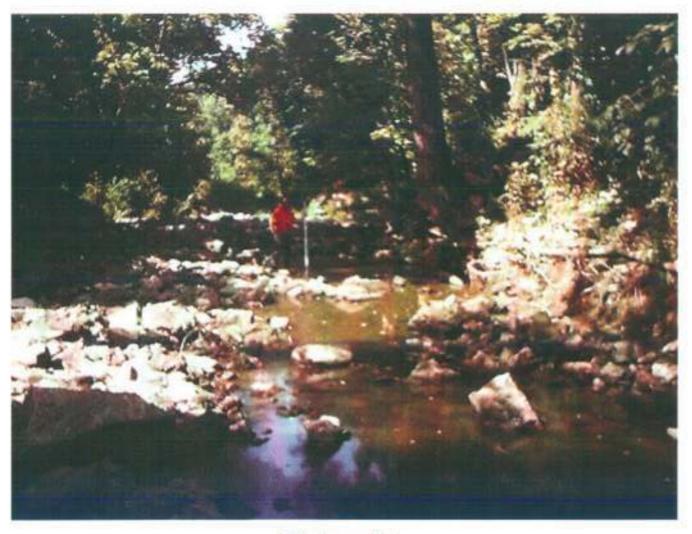
Picture #9



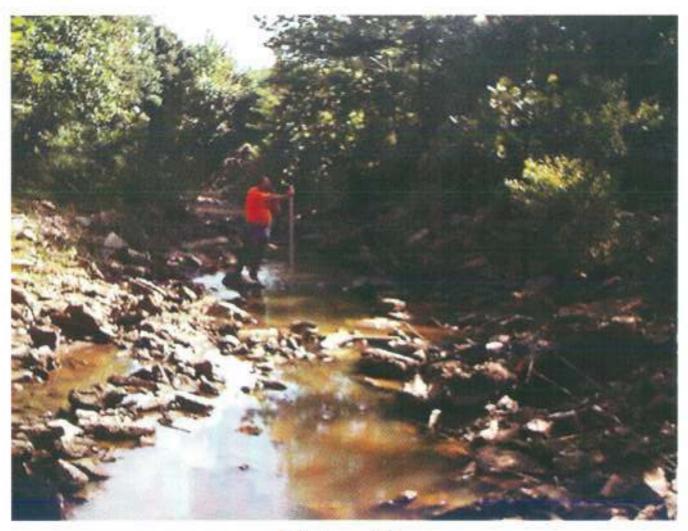
Picture #10



Picture #11



Picture #7



Picture #8

Interviews

Ralston Purina Pet Care: When stopping to take readings at the farm entrance on Highway MM, we were quickly met by a security guard. He in turn called 2 other gentlemen so we could request permission to photograph the creek at their entrance. We were told by Joe Cody and Jim Frisch that company policy would not allow us to enter their property and take photograph. At this time we asked how long these gentlemen had worked at this location. Joe Cody said he has worked there since the 1950's. When asked if he had ever seen anyone swimming or recreating near the stream he said no. He also pointed out that Purina owned the property on both sides of MM and did not allow any trespassing. Since the stream is wholly within their property no access would be allowed.

When working near the Beauty View Acres WW Lagoon we spotted George Wheeler of #4 Beauty View Acres mowing his lawn. His house is across the street from the Lagoon. We asked him if he had ever seen anyone using the stream. He said once he saw a neighbor fishing there. His neighbor would catch and release. He also told us that the Homeowners Association always told everyone not to swim or enter the stream. George has lived at this address for 2 years.